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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/067,403	02/07/2002	Laurence Hamid	12-72 US	7278
25319	7590	01/24/2006	EXAMINER	
FREEDMAN & ASSOCIATES 117 CENTREPOINTE DRIVE SUITE 350 NEPEAN, ONTARIO, K2G 5X3 CANADA			ABRISHAMKAR, KAVEH	
			ART UNIT	PAPER NUMBER
			2131	

DATE MAILED: 01/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/067,403

Applicant(s)

HAMID, LAURENCE

Examiner

Kaveh Abrishamkar

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 01 November 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1 and 3-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 and 3-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Response to Amendment***

1. This action is in response to the amendment filed on November 1, 2005. Claims 1-21 were originally received for consideration. Per the received amendment, claims 2 was cancelled, leaving claims 1, and 3-21 as currently pending examination.

### ***Response to Arguments***

2. Applicant's arguments filed November 1, 2005 have been fully considered but they are not persuasive for the following reasons:

Regarding amended claim 1, the applicant argues that the cited prior art (CPA), Lockhart et al. (U.S. Patent No. 6,230,272) does not teach the limitation, originally presented in claim 2, of encoding a same security data with several different data keys to provide several different encoded data such that a combination of user authorization and any of the several keys allows for retrieval and decoding. This argument is not found persuasive. Lockart uses a multipurpose data string to encrypt private keys (security data) which needs a user PIN or password to access (user authorization) (column 3 lines 6-22). Lockart discloses that a user can "use a different data string for another software application that is used on the computer" (column 5 lines 26-32). Therefore, a different data string can be used to encode different keys for the different software applications present on the computer. Therefore, it is asserted that the CPA

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does teach "a same security data is encoded with said several different data keys to provide several different encoded secure data such that a combination of user authorization and any of said several different data keys allows for retrieval and decoding."

Therefore, the rejection is maintained for the pending claims as given below.

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Lockhart US (6,230,272).

Regarding claim 1: Lockhart discloses a method of securing security data stored on a computer system (see abstract) comprising the steps of:

Providing one of several different data keys to the computer system; (Col 3, lines 39-46)

Transforming the security data with the data key in a reversible fashion to produce encoded secure data such that the data key is required in order to perform a reverse transform and extract the security data from the encoded secure data; and (Col 4, lines 35-43)

storing the encoded secure data in a fashion such that a user authorization process is used to retrieve the encoded secure data such that the data key and the user authorization process in combination, provide access to the security data and such that the stored data within the computer system is encoded. (Col 4, lines 43-45 and Col 4, lines 59-65),

wherein a same security data is encoded with several different data keys to provide several different encoded secure data such that a combination of user authorization and any of a plurality of data keys allows for retrieval and decoding. (Col 5, lines 22-32 and Col 5, lines 52-62).

Regarding claim 3: Lockhart discloses the method of securing security data stored on a computer system according to claim 1, wherein each encoded secure data is associated with one or more user authorization processes such that a combination of one or more user authorization processes and any of said several different data keys allows for retrieval and decoding. (Col 6, lines 8-24 and Col 7, lines 22-27)

Regarding claim 4: Lockhart discloses the method of securing security data stored on a computer system according to claim 1, wherein the user authorization process is a

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biometric information verification process. ( Col 3, lines 45-49)

Regarding claim 5: Lockhart discloses the method of securing security data stored on a computer system according to claim 1, wherein the data keys include a password. ( Col 4, lines 3-8)

3. Claims 6-10, 13-15 and 18-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Bjorn US (6,035,398).

Regarding claims 6,13 and 19: A method of securing security data stored on a computer system comprising:

providing a biometric information source ( Col 5, lines 61-64) and comparing the biometric information source against stored templates associated with the biometric information source;( Col 5, lines 64-68) and for, in dependence upon a comparison result pairing biometric information source with a first individual identity;( Col 6, lines 1-3);

providing one of several different data keys associated with the first individual identity;(Col 6, lines 14-17) the one data key being other than stored on the computer system; (Col 6, lines 17-24);

retrieving encoded security data associated with the biometric information, and using the one data key for decoding the encoded security data. (Col 8, lines 54-61),

wherein a same security data is encoded with several different data keys to provide several different encoded secure data such that a combination of user authorization and any of a plurality of data keys allows for retrieval and decoding. (Col 5, lines 22-32 and Col 5, lines 52-62).

Regarding claims 7 and 18: A method of securing security data stored on a computer system according to claim 6, wherein the decoded security data is for performing at least one of encrypting and decrypting data on the computer system. ( Col 8, line 66 through Col 9, line 6)

Regarding claim 8: A method of securing security data stored on a computer system according to claim 6, wherein the decoded security data is for allowing access of the data to the identified individual. (Col 9, lines 7-18)

Regarding claim 9. A method of securing security data stored on a computer system according to claim 6, wherein the step of accepting biometric information source comprises imaging the biometric information source using a contact imager. (Col 3, lines 4-11 and Col 4, lines 4-11)

Regarding claim 10: A method of securing security data stored on a computer system according to claim 9, wherein the contact imager is a fingerprint imager. (Col 3, lines 4-11 and Col 4, lines 4-11)

Regarding claims 14 and 21: Bjorn discloses the method of securing data as defined in claim 13, wherein the step of providing a first information sample to a computer system comprises: hashing the first information sample to produce a first hash value. (Col 3, lines 44-59)

Regarding claim 15: Bjorn doesn't disclose the method of securing data as defined in claim 13, comprising:

providing a second other information sample to the computer system; hashing the second information sample to produce a second hash value; encoding the key data in dependence upon the second hash value to produce second security data; and securing the second security data in dependence upon at least one of the at least one biometric information sample.

Regarding claim 15: Bjorn discloses the method of securing data as defined in claim 13, comprising:



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providing a second other information sample to the computer system;(Col 3, lines 28-36)

hashing the second information sample to produce a second hash value; (Col 3, lines 44-46)

encoding the key data in dependence upon the second hash value to produce second security data; and ( Col 3, lines 54-65)

securing the second security data in dependence upon at least one of the at least one biometric information sample.( Col 4, lines 8-20)

Regarding claim 20: Bjorn discloses the method of securing data according to claim 19, comprises the steps of: providing a first information sample to a computer system for decoding the encoded biometric sample; (Col 4, lines 60-63 and item 340 of FIG. 3) and comparing the decoded biometric sample against stored templates associated with the biometric information source. ( Col 4, lines 64-67 and item 345 of FIG. 3)

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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5. Claims 11,12,16, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bjorn US (6,035,398) in view of Gressel US (6,311,272).

Regarding claims 11 and 16: Bjorn disclose the method of securing security data stored on a computer system according to claim 6, wherein the step of providing the data key comprises the step of providing a public/private key pair (Col 8, lines 54-61) but he doesn't explicitly disclose the step of providing the data key comprises the step of providing. however Gressel discloses a biometric authentication system where he teaches the using of a password or a shared secret to retrieve and decrypt decryption key stored on memory using biometric techniques ( Col 5, lines 56-65) . Therefore it would have been obvious to one ordinary skilled in the art at the time the invention was made to modify Bjorn system with the teachings of Gressel to include provide a password through the authentication process. One would be motivated to do so in order to enable the system to provide the decryption key to the user by authenticating the user using a password or PIN that is usually easier for the user to remember and keeping the decryption key in a secure area.

Regarding claims 12 and 17: Bjorn discloses the method of securing security data stored on a computer system according to claim 6, wherein the step of providing the data key comprises the step of providing information stored on a database but he doesn't explicitly disclose the step of providing the data key comprises the step of

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providing information stored on smart card. However, Gressel discloses a biometric authentication system where he teaches storing decryption key on a smart card and using a shared key to retrieve and decrypt decryption key stored on the smart card (Col 3, Lines 50-55 and Col 8, lines 28-38). Therefore it would have been obvious to one ordinary skilled in the art at the time the invention was made to modify Bjorn invention with the teachings of Gressel to provide a data key stored the smart card. One would be motivated to do so in order to eliminate any possibility of the decryption key being compromised during operation and to provide higher degree of security against physical attacks. Additionally using the smart card enables the system to provide a higher degree of mobility for the users.

### ***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kaveh Abrishamkar whose telephone number is 571-272-3786. The examiner can normally be reached on Monday thru Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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